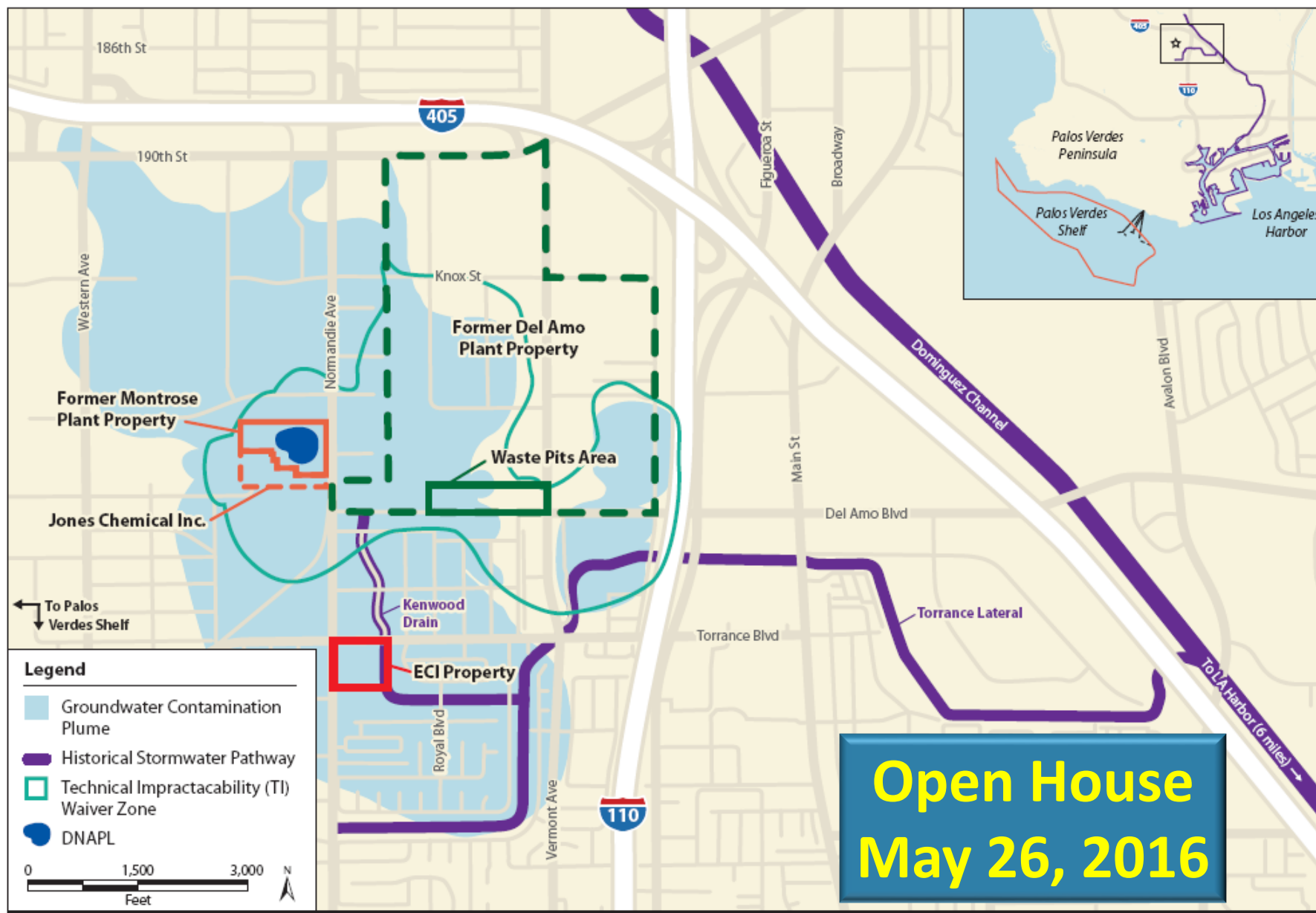


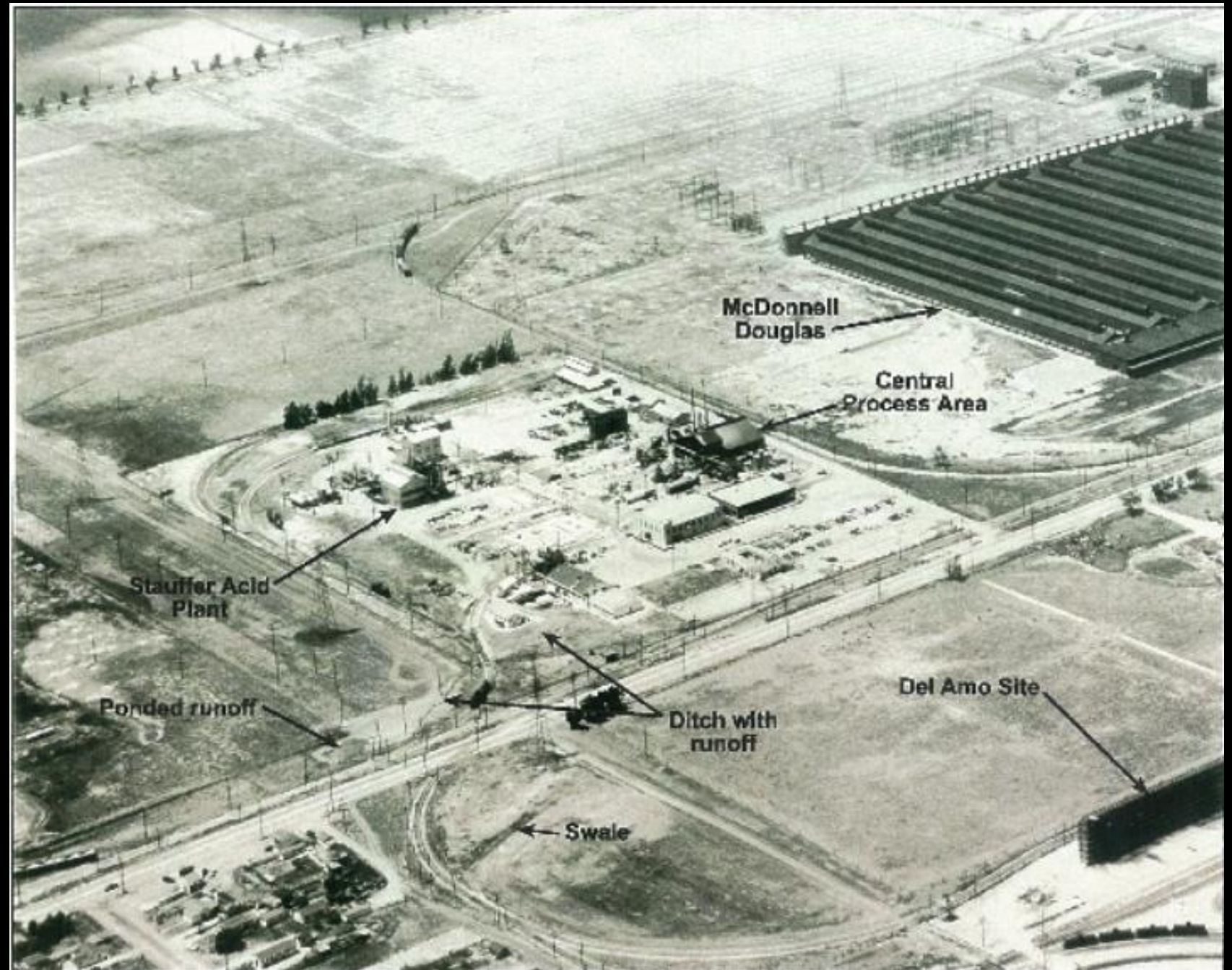


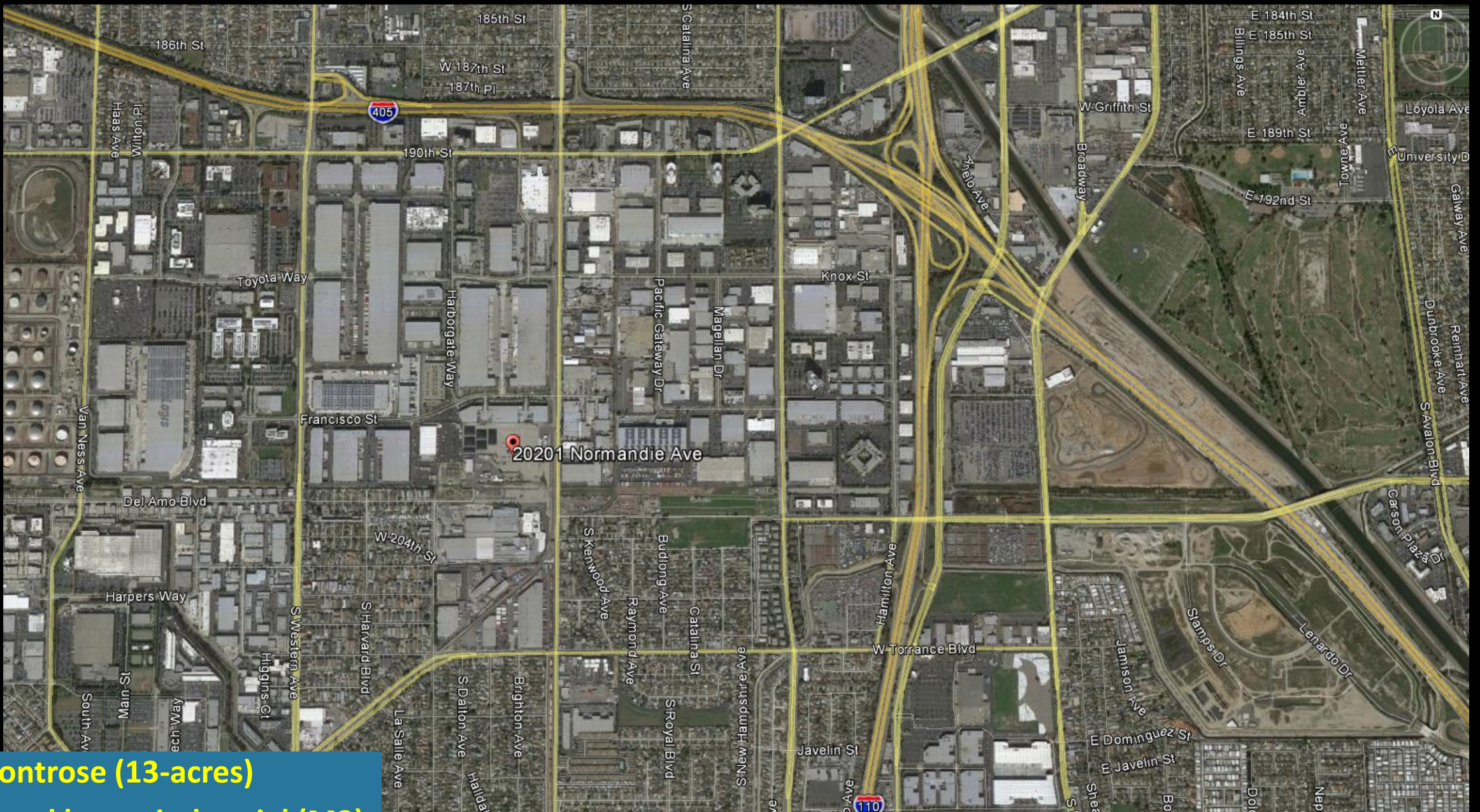
Montrose & Del Amo Superfund Sites

Harbor Gateway, Los Angeles County, CA • May 2016



Montrose Plant Property (1952)





- Montrose (13-acres)
- Zoned heavy industrial (M3)
- 3000 people within ¼ mile

Montrose/Del Amo Superfund Site



Francisco St

Del Amo Blvd

S Denker Ave

S Normandie Ave

20201 Normandie Ave

© 2016 Google

Montrose Plant Property



20201 Normandie Ave

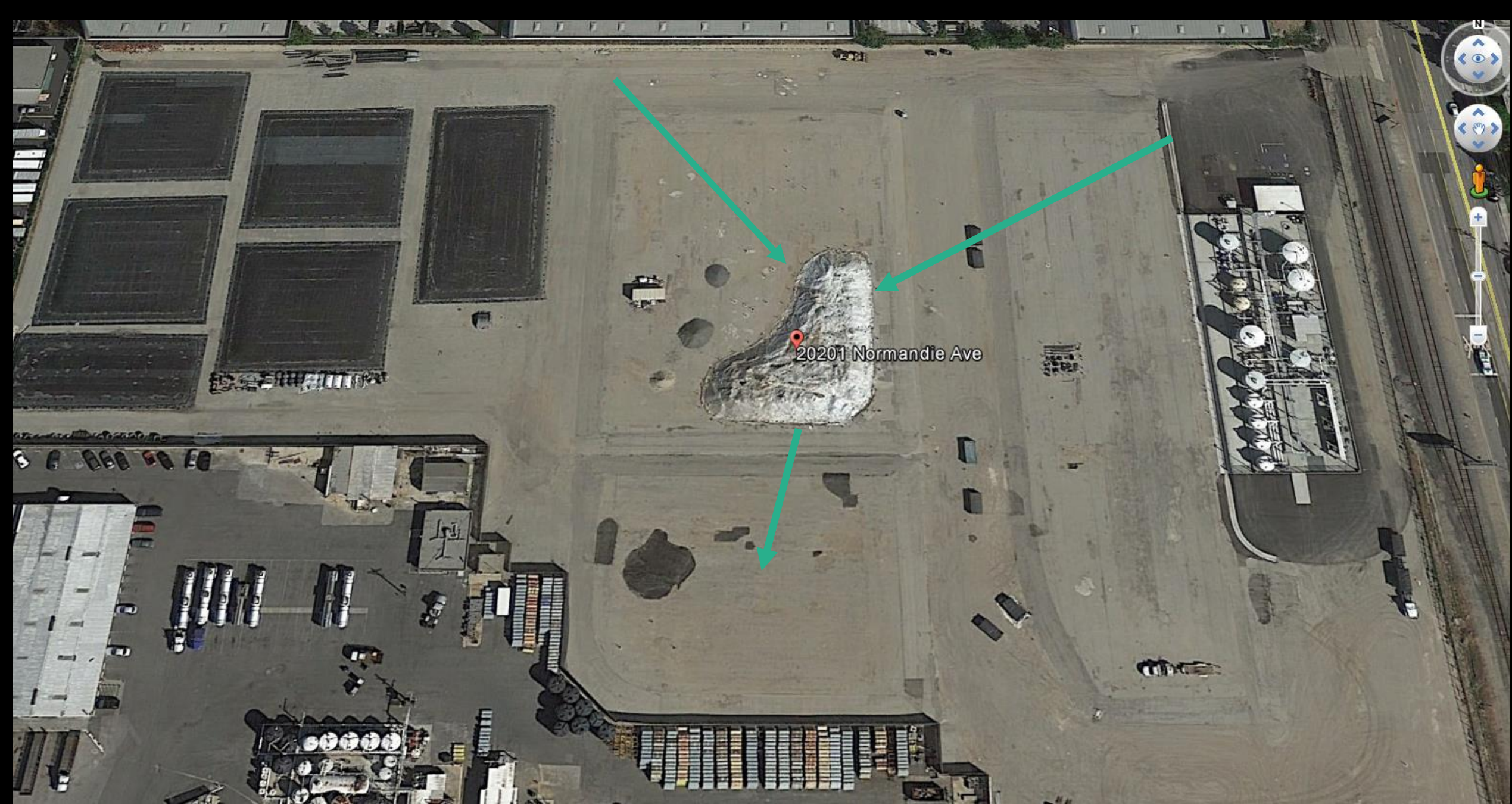
S Normandie Ave

© 2016 Google

Montrose Plant Property

Tour Guide

1994



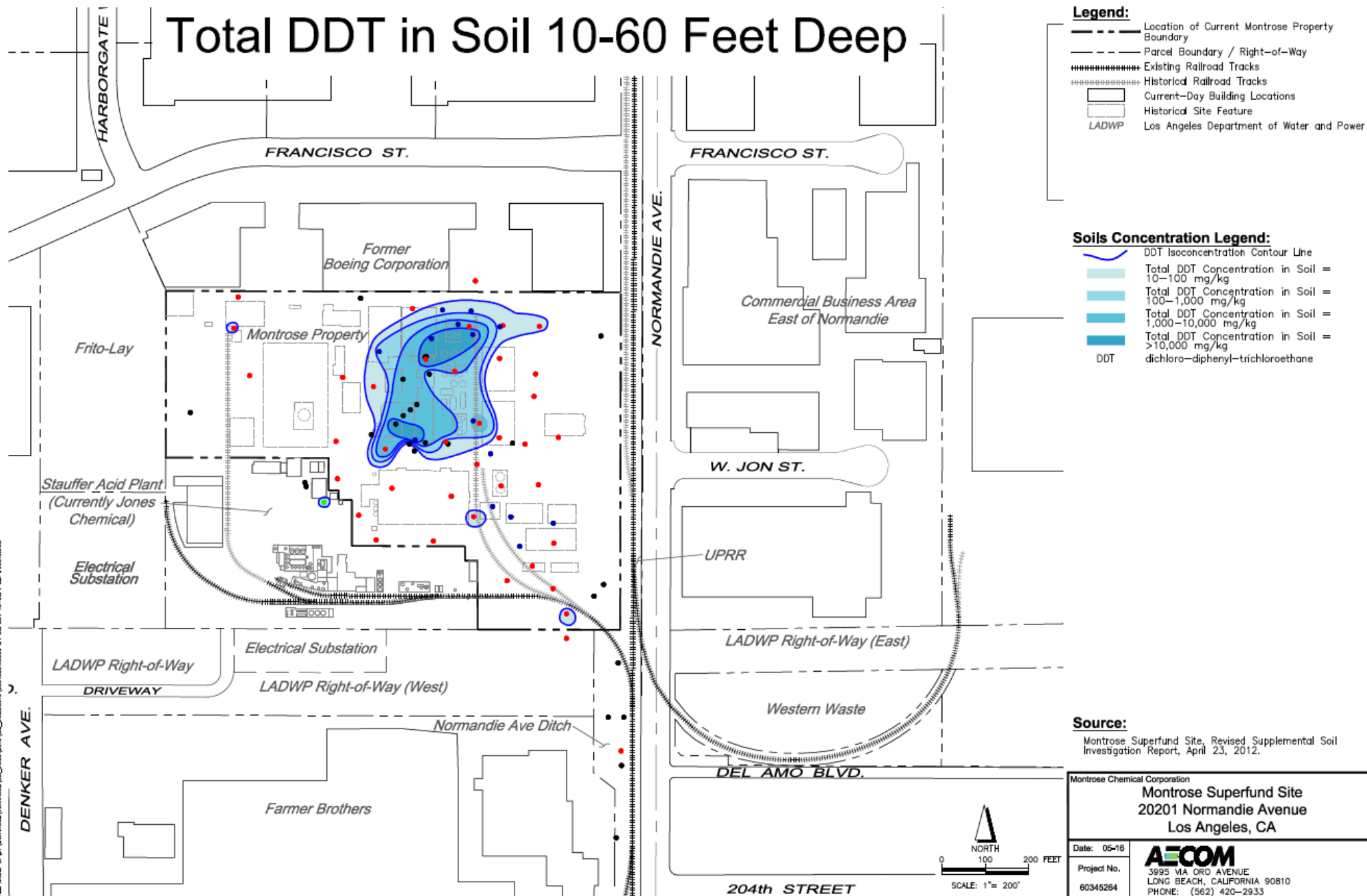
Soil Storage Cells on Montrose Plant Property



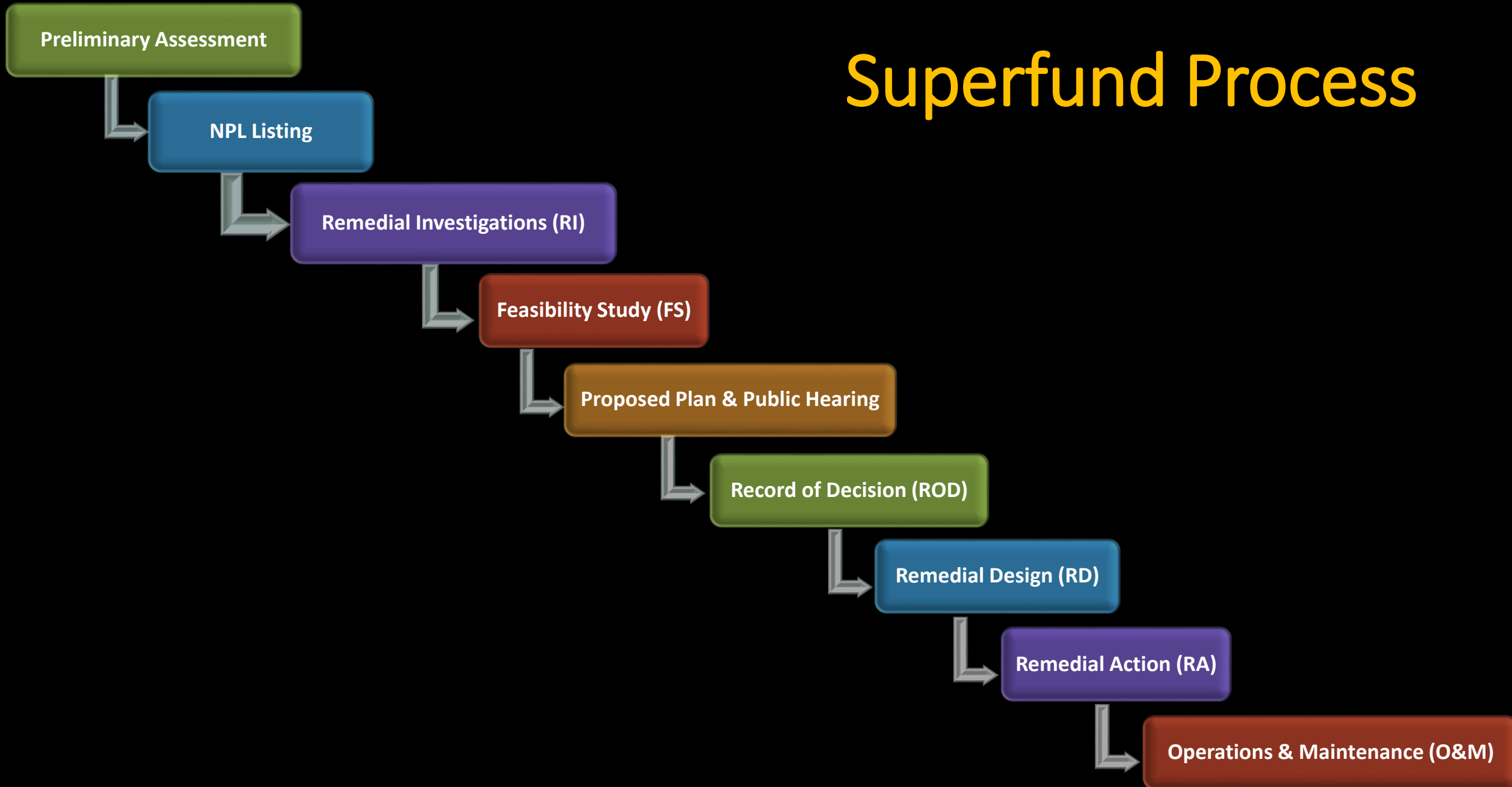
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Total DDT in Soil 10-60 Feet Deep



Superfund Process



Cells with Installed HDPE Covers (W)



MONTROSE TREATMENT SYSTEM

Contaminated
Groundwater
from Wells

Arsenic occurs naturally
in parts of the aquifer
Arsenic treatment if needed



Treatment System

HiPOx
pCBSA Treatment



Air Stripping
VOC Treatment



Liquid Carbon Filter
More VOC Treatment



Mineral Filter
Minerals not hazardous, removed
for reinjection to aquifer



VOC (Volatile Organic
Compound): Chlorobenzene,
Benzene, TCE etc.

Vapor Carbon Filter
VOC Removal



To
Outside
Air

Treated Water
Returned to
Aquifer

Montrose & Del Amo Operable Units (OU)

Montrose							Montrose & Del Amo		Del Amo	
Soils OU 1	Torrance Lateral OU 2	DNAPL OU 3D	Kenwood OU 4	Palos Verdes Shelf OU 5	Royal Boulevard OU 6	Jones Chemical OU 7	Dual Site Groundwater OU 3G	Vapor Intrusion OU 3G	Soil and NAPL OU 1	Waste Pits Area OU 2
Chemical contamination is found in shallow soils & soil gas. The OU-1 boundaries include the Montrose Property, as well as several other industrial properties located immediately to the north, east, & south of the Montrose Property.	Existing Stormwater Pathway: Locations within the Torrance Lateral, Dominguez Channel and Consolidated Slip where rainfall run-off may have carried DDT.	Undissolved, also referred to as Dense Non Aqueous Phase Liquid (DNAPL), chlorobenzene & DDT found in soil and soil gas under the Montrose Property.	Historical Stormwater Pathway - North: DDT contaminated soils, at locations around Kenwood Ave. due to, site related, storm water run off. Cleanup was completed in 2002.	DDT contamination on the ocean floor off the Palos Verdes Peninsula. OU-5 is addressed separately and has its own Community Involvement Plan. For more information visit: www.pvsfish.org	Historical Stormwater Pathway - South: DDT sediment contamination found on properties located along the historical stormwater pathway	Contamination present in shallow soil and soil gas as a result of past activities at the site. Further investigation is being conducted as part of the RI process.	Ground water contamination from the Montrose and Del Amo Sites (such as benzene and chlorobenzene) overlap and are treated as one cleanup.	Volatile organic compounds in the groundwater can evaporate through the soil, migrate into indoor air through cracks and other openings in the foundation slabs of a building, and pose an indoor air risk in overlying homes and businesses.	Includes shallow soils and deep soils, except for the waste pits area. Volatile organic compounds (VOCs) and Polycyclic Aromatic Hydrocarbons (PAHs), some in NAPL form, were found and a Record of Decision for cleanup was released in 2011.	Includes the waste pits and surrounding impacted soil. Early cleanup actions occurred in the 1980s. The Waste Pits Record of Decision in 1997 resulted in the placement of a cap over the Pits and installation of a soil vapor and in-situ bioremediation system for soil gas.
Current Step In Superfund Progress										
3 RI / FS	3 RI	3 FS	7 O & M		3 RI / FS	3 RI / FS	5 RD		5 RD	7 O & M
Remedial Project Manager (RPM)										
Russell Mechem (415) 972-3192 mechem.russell@epa.gov		Yarissa Martinez (213) 244-1806 martinez.yarissa@epa.gov	Russell Mechem (415) 972-3192 mechem.russell@epa.gov	Judy Huang (415) 972-3681 huang.judy@epa.gov	Anhtu Nguyen (415) 972-3443 nguyen.anhtu@epa.gov	Yarissa Martinez (213) 244-1806 martinez.yarissa@epa.gov	Raymond Chavira (415) 947-4218 chavira.raymond@epa.gov	Yarissa Martinez (213) 244-1806 martinez.yarissa@epa.gov	Anhtu Nguyen (415) 972-3443 nguyen.anhtu@epa.gov	Anhtu Nguyen (415) 972-3443 nguyen.anhtu@epa.gov

NOTE: Current Step In Superfund Progress

3 — Superfund Project Status (in a 9 step cleanup process)

* Current Step In Superfund Progress — See page 1 for Acronyms

Community Involvement Coordinator

Yolanda Sanchez
(415) 972-3880
sanchez.yolanda@epa.gov